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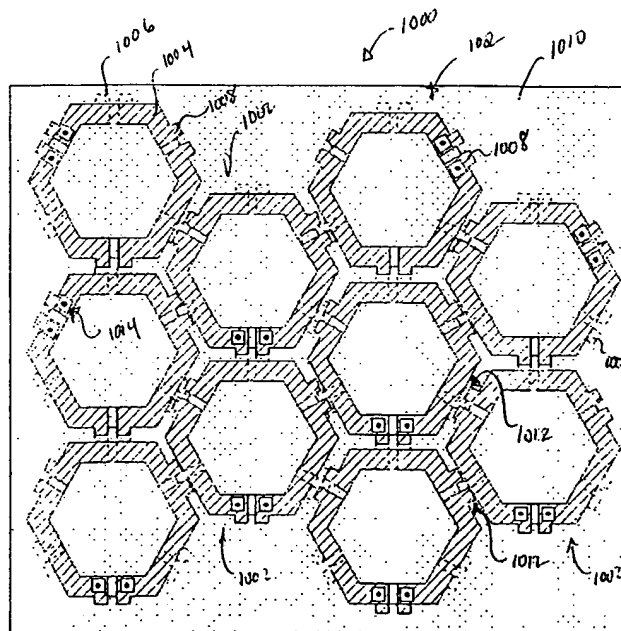
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(54) Title: **SUPERCONDUCTING ARRAY OF SURFACE MRI PROBES**



(57) Abstract: An array of resonators for use in MRI and NMR is disclosed where the resonators are solid state constructs including a pair of resonating elements formed on both sides of a dielectric substrate and cooperate to form a resonator and where each resonator includes at least one discontinuity and the discontinuities on each resonating element are equally spaced and between the resonating elements are equally spaced. A probe for MRI is also disclosed which includes a source of cooling to cool the arrays therein.

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**

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US CL : 324/322

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 324/322

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 6,633,161 B1 (VAUGHAN, JR.) 14 October 2003 (14.10.2003), see entire document.	1-25
A	US 6,252,403 B1 (ALSOP) 26 June 2001 (26.06.2001), see entire document.	1-25
A	US 6,177,797 B1 (SRINIVASAN) 23 January 2001 (23.01.2001), see entire document.	1-25

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	
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